What is claimed is:

1. A motor, comprising:

a motor unit having first and second electrode terminals; and

a cylindrical case for covering and securing the motor unit, including a large case body having a cylindrical conductive portion which is directly electrically connected to the second electrode terminal, and an insulating small case body directly provided with the first electrode terminal.

2. The motor as claimed in claim 1, wherein the motor unit further comprises a commutator and contact springs, and the first and second electrode terminals of the motor are electrically connected to the commutator through the contact springs.

3. The motor as claimed in claim 1, wherein the large case body and the insulating small case body comprise recess portions for connecting the large case body and the insulating small case body.

4. A motor, comprising:

a rotor having first and second electrical terminals; and

a cylindrical case for covering and securing the rotor, including a cylindrical conductive portion electrically connected to the rotor and directly connected to the second electrical terminal of the rotor, and an end case electrically connected to the rotor and directly connected to the first electrical terminal of the rotor.

5. A motor, comprising:

a motor unit having first and second electrode terminals; and

a cylindrical case for covering and securing the motor unit, including a large case body having a cylindrical conductive portion which is directly electrically connected to the second electrode terminal, and an insulating small case body directly provided with the first electrode terminal,

wherein the motor unit further includes a rotary shaft, a commutator and a contact spring, and the first electrode terminal extends through the insulating small case body and includes a first end which is electrically connected to the commutator through the contact spring, and a second end which is exposed on an exterior of the insulating small case body, to be connected to an external battery directly or through at least one conductive member.

6. The motor as claimed in claim 5, wherein the second end of the first electrode terminal is turned to form a contact head.

7. A motor, comprising:

a rotor having first and second electrical terminals; and

a cylindrical case for covering and securing the rotor, including a cylindrical conductive portion electrically connected to the rotor and directly connected to the second electrical terminal of the rotor, and an end case electrically connected to the rotor and directly connected to the first electrical terminal of the rotor,

wherein the rotor further comprises a rotary shaft, a commutator and a contact spring, and

the first electrical terminal extends through the end case and includes a first end which is electrically connected to the commutator trough the contact spring, and a second end which is exposed on an exterior of the end case to be connected to an external battery directly or through at least one conductive member.

8. The motor as claimed in claim 7, wherein the second end of the first electrical terminal is turned to form a contact head.

9. A motor, comprising:

a motor unit having first and second electrode terminals; and

a cylindrical case for covering and securing the motor unit, including a large case body having a cylindrical conductive portion which is directly electrically connected to the second electrode terminal, and an insulating small case body directly provided with the first electrode terminal,

wherein one of the first electrode terminal of the motor and the cylindrical conductive portion of the large case body is electrically connected to a first electrode of the battery, and the other of the first electrode and the cylindrical conductive portion is conductively connected to a second electrode of the battery.

10. The motor as claimed in claim 9, wherein the motor unit further comprises a commutator and contact springs, and the first and second electrode terminals of the motor are electrically connected to the commutator through the contact springs.

11. A motor, comprising:

a rotor having first and second electrical terminals; and

a cylindrical case for covering and securing the rotor, including a cylindrical conductive portion electrically connected to the rotor and directly connected to the second electrical terminal of the rotor, and an end case electrically connected to the rotor and directly connected to the first electrical terminal of the rotor,

wherein one of the first electrode terminal of the rotor and the cylindrical conductive portion of the large case body is electrically connected to a first electrode of the battery, and the other of the first electrode and the cylindrical conductive portion is conductively connected to a second electrode of the battery.